



SAMURAI BLADE

HD-SDI Field Recorder, Monitor & Deck, Playback & Playout Device



10-bit Smart Production for HD-SDI Cameras

Record → Monitor → Playback+Playout → Edit-Ready

Uncompressed 8/10-bit



ProRes | Avid DNxHD®



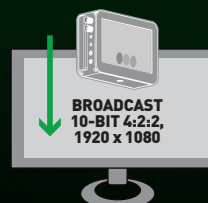
HDD SSD

5" SuperAtom
IPS Screen
1280x720/16:9

Monitor Assist +
Waveform Monitor

Playback on-screen
or external monitor
Instantly review,
navigate, mark and tag
your recorded footage

HD-SDI



MASTER
CADDY
HDD/SSD



DOCK
via USB 3/2

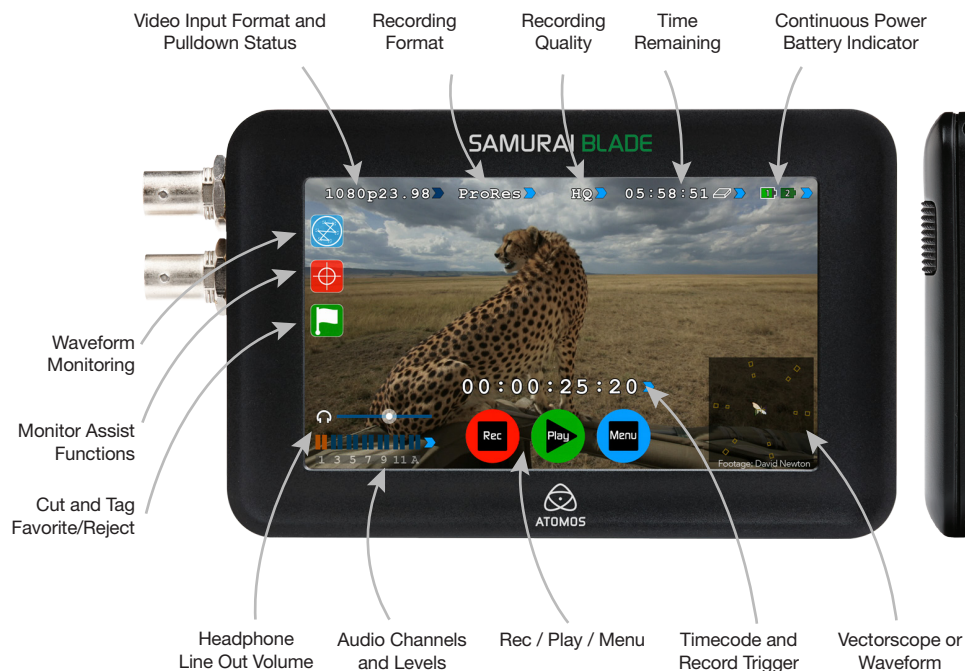


MAC & PC
COMPATIBLE

Mac & PC compatible

ATOMOS Samurai Blade

YOUR 10-BIT HD-SDI SMART PRODUCTION WEAPON

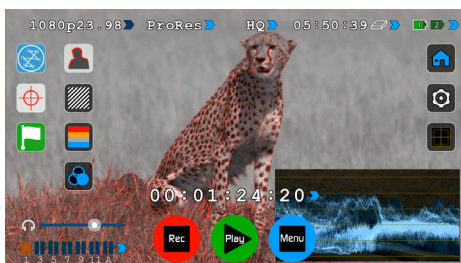
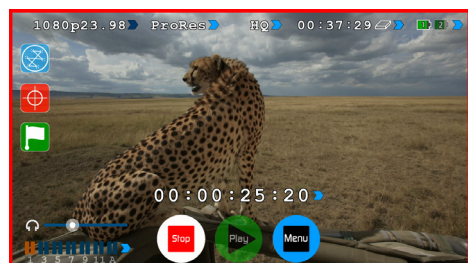


- Video Input**
Connect camera using HD/SD-SDI cable
- Video Output**
Connect external device via the HD/SD-SDI cable
- LANC Remote**
Optionally control the recorder using LANC remote control connected here (use a 2.5mm TRS/ 3-pin plug)
- Share remote control with other devices (loop thru) by connecting them to the second LANC connector cable
- Audio**
Stereo Line In or Headphones

ATOMOS SMART PRODUCTION

ALL THE FEATURES YOU'VE ASKED FOR, AND MORE...

- One-touch Recording**
- One-touch Monitoring**
- One-touch Review**



SmartControl

Start/stop trigger from rolling timecode set by supported cameras.

SmartMonitor

Use Waveform monitoring with:

- Luma Overlay**
- RGB Parade Display**
- Vectorscope**
- Vectorscope Zoom**

SmartMonitor (continued)

Accurately assess focus and exposure with:

- Focus Peaking**
- Adjustable Zebra**
- False Color (two modes)**
- Blue Only - Exposure Check**
- Adjustments for individual filters**

SmartLog

Log in and out points on your footage and tag these clips with keywords such as 'good shot' (Favourite) or 'bad shot' (Reject).



With the Samurai Blade this part of the post production process can now be done on set, or on the move, support by Continuous Power.

SmartLog operates while in Monitor or Playback mode. It saves time, money and allows fast, collaborative pre-editing prior to final post production in Apple Final Cut Pro X.



Online or Offline, Master or Back-up

10-bit 4:2:2, 220Mbps, 2.5" HDD or SSD

Professional media production is all about balancing quality, cost and time. We understand this dynamic and our aim is to redefine the digital recording workflow to maintain the highest recording quality, minimize the time taken to move video from camera to computer and lower the cost of production using affordable, high capacity, high speed media.

The Samurai Blade takes any uncompressed HD or SD source and encodes it in real-time to 10-bit, 4:2:2 Apple ProRes or Avid DNxHD at up to 220Mbps. Both are class-leading codecs for production, broadcasting, editing and post-production. Because we are portable, we can record from the ultimate image source, the sensor of the camera.

The Samurai Blade always records in 10-bit, even from an 8-bit source. We add color registries for incorporating higher bit-depth graphics from CG, animation and special effects. This avoids banding and makes editing and grading, in fact any precision effect, more accurate.

Any or HD-SDI or HDMI source...

**DSLRs, Decks, Switchers,
PC, Mac, iPad & iPhone**

Samurai Blade has HD-SDI In as standard and can accept HDMI input with the addition of a Connect H2S or Connect-AC H2S.



Nikon/Sony/Panasonic/Canon/RED/ARRI/JVC/GoPro

Whether you're a Hollywood DoP needing a high quality review and tagging tool from an ARRI, RED, Canon or Sony camera, or an independent filmmaker using a Nikon DSLR for end-to-end digital production, the Samurai Blade makes all types of production faster, better and easier, and at very little cost.

James Cameron used Atomos field recorders on his *Deep Sea Challenge* - need we say more? From 4 miles down to 20,000 feet up, Samurai Blade will record your adventures in super high quality - it's got you covered on land, air and sea!



Ready to deliver, high-capacity HDD or SSD No more expensive memory cards!

Samurai Blade frees you from the financial and operational constraints of expensive Flash media (eg. SxS and P2) and aggressive compression (MPEG-2) by allowing you to use cheap, commodity storage that's available anywhere.

Choose inexpensive 2.5" hard disk drives (spinning disks) for 90% of projects and Flash-based SSDs for rough terrain or high security use. HDDs are now cheaper than tapes! Store them on a shelf or hand them to your client. Modern commodity storage is extremely reliable.

A 750GB/7200rpm drive holds up to 16 hours of high quality Apple ProRes® footage.

Supported Drives

HDD: Western Digital, Hitachi, Samsung, Toshiba

SSD: Intel, SanDisk

Latest recommended drives: atomos.com



1280x720 SuperAtom IPS screen

Waveform Monitor, Focus Peaking, Zebra and more...



At 325 dpi and 1 million pixels (1280x720) the Samurai Blade's 5" SuperAtom IPS Panel delivers amazing resolution, super accurate colours and super deep blacks.

The Samurai Blade is the first truly professional monitor that records, offering full waveform functionality, including vectorscope, in addition to focus peaking, zebra, false colour and blue-only monitoring tools.



Pristine Playback & Payout SmartLog - Just Mark & Tag

Use your Samurai Blade's screen to navigate through and review your footage, to mark in and out points and input XML tags. Instantly show your material to production colleagues, clients or talent, and check each shot in detail, during or after the shoot - logging their suggestions without leaving the set. Review and log an entire day's shoot on-set, or while travelling, with high-quality playback and comprehensive clip logging & navigation controls.

Just touch "Play" on the Samurai Blade screen and view your full HD recordings, with up to of 10 hours playback and editing on one battery charge (and don't forget our patent-pending Continuous Power for unlimited operation in the field).



Instant editing on MAC or PC!

The Samurai Blade seamlessly migrates your productions to the efficient and cost-effective world of file-based workflows. By recording directly to a production-quality, edit-friendly format, it bypasses the codec in the camera and eliminates time-consuming capture and conversion.



The Samurai Blade's tight integration with Apple ProRes® and Avid DNxHD means recorded footage is instantly and natively editable in Final Cut, Media Composer, Premiere Pro, EDIUS, Vegas and Lightworks.

What's in the box

Samurai Blade works right out of the box, you can be using it within minutes! We supply everything (except storage media).

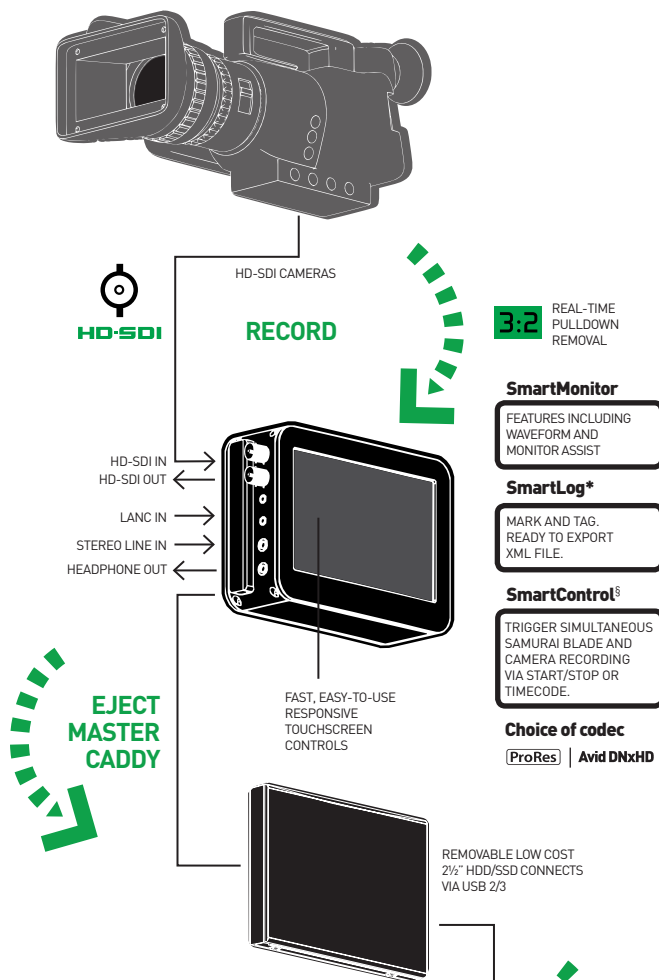
- Samurai Field Recorder
- NP Series-Compatible Battery
- Battery Charger 110-240V
- AC Adaptor
- D-Tap Adaptor
- 2 X Master Caddy Cases
- 2.5" HDD/SSD Docking Station USB 2/3



Contents may differ from those shown here.

FROM SENSOR TO EDIT SUITE UNCOMPRESSED 10-BIT HD/SD

- Uncompressed 8/10-bit HD/SD from HD-SDI to Apple ProRes® or Avid DNxHD® on HDD/SSD



- **Ready to Edit**
FCPX/FCP7+
Media Composer 5.0+
Premiere Pro
EDIUS 6.0+
Vegas Pro 10+
Lightworks

Mac + PC Compatible

SAMURAI BLADE TECH SPECS



Samurai Blade Main Unit

Lightweight	12oz (without batteries & HDD) 22oz (with batteries & HDD)	
Dimensions (without batteries)	140mm (W) x 87mm (H) x 41mm (D)	
Construction	Aircraft-grade aluminium for durability + portability. Fanless for silent operation.	
Operating Power	3.3W (Monitoring Only) / 6.8W (Rec, Mon & Play)	
Batteries 7.2V-14.4V Battery System Compatible NP Series D-Tap and supporting accessories	All 7.4v 1. 2600mAh - Up to 4hrs 2. 5200mAh - Up to 8hrs 3. 7800mAh - Up to 12hrs 4. AC Power via adaptor plate (included) 5. D-Tap Adaptor (included - cables sold separately)	
Continuous Power* *Patent Pending	Primary-Secondary battery system. Change batteries without losing power. Loop batteries continuously.	
Touchscreen	Size: 5" diagonal. Resolution: 1280 x 720 Aspect Ratio: 16:9 native/4:3 Letterbox. Rec.709 HDTV Colour Spec Native Frame Rate Playback (24-60Hz) SuperAtom IPS (in-Plane Switching) panel	
Video Input Uncompressed 10/8-bit 4:2:2 Simultaneously displayed on 5" Samurai screen	HD/SD-SDI x 1 (HDMI x 1 with optional H2S Connect HDMI -> SDI converter)	SDI SMPTE 259/292/296 HDMI v1.4
Video Output Uncompressed 10-bit 4:2:2 Simultaneously displayed on internal 5" Samurai screen Mini BNC to BNC cables provided	HD/SD-SDI x 1 (HDMI x 1 with optional S2H Connect SDI -> HDMI converter)	SDI SMPTE 259/292/296 BNC HDMI v1.4
Supported Formats (In/Out)	HD 1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080pSF23.98, 1080pSF24, 1080pSF25, 1080pSF29.97, 720p60, 720p59.94, 720p50, SD 486i59.94, 576i50 pSF - Progressive Segmented Frame modes are recorded to Progressive rates	
Realtime Hardware Encoding 1920x1080 8/10-bit 4:2:2 to:	<p>→ Apple ProRes® HQ - 220Mbps 422 - 150Mbps LT - 100Mbps</p> <p>→ Avid DNxHD® Avid DNxHD-220/220x - 220Mbps (8/10-bit) Avid DNxHD-185/185x - 185Mbps (8/10-bit) Avid DNxHD-145 - 145 Mbps (8-bit) Avid DNxHD-36 - 36 Mbps (proxy)</p> <p>(Online Activation Required)</p>	
Onboard Processing Auto detect and remove or insert pulldown	25pSF (50i) → 25p 29.97pSF (59.94i) → 29.97p 24p (3.2-59.94i) → 24p 23.98p (3.2-59.94i) → 23.98p	
Audio input 48kHz PCM audio	SDI 12 channels + 2 analog channels 2 Vpeak with gain controls	
Waveform & Monitor Assist Function	WFM Luma/RGB Parade with size, dynamic range & opacity controls. Monitor Assist: Focus Peaking - Color/B&W/Outline, Zebra (0-100%), False Color, Blue Only & Grid Lines (Centre, Active Safe, Title Safe, 4:3)	
Audio output 48kHz PCM audio	SDI 12 channels + headphone/line-out 2 Vpeak for onboard review. (Select any pair of channels)	
Remote Start and Stop	Via SDI trigger / Via SDI timecode / Via LANC controller	

Master Caddy & Accessories

Master Caddy Case for HDD or SSD 2.5" SSD or HDD minimum 5400rpm to 10,000rpm Standard 9.5mm height	75x105x12mm For recommended drives visit: www.atomos.com
Master Caddy Dock	2.5" internal drive SATA to USB2.0/3.0 including USB cable
Accessories included	• Universal Battery Charger 110-240V • AC Adaptor & Car Charger • Master Caddy • 2 x Master Caddy Cases • 1 x Atomos 2600mAh battery • D-Tap Adaptor
Optional extras	• 5 x Master Caddy Cases • Carry Case • Connect H2S converter • Connect S2H converter • Sun Hood • Canon®/Nikon® battery plates

* SmartLog currently only supported by FCP X. † Certain Canon and Sony models only. Avid DNxHD is HD only, not SD.

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